

CLAIM AMENDMENTS

---

Claims 1-65 (Cancelled).

66. (Currently Amended) A medical system, comprising:

a plurality of electrodes configured to be placed adjacent heart tissue;

a controller configured for conditioning the electrodes to perform a diagnostic or therapeutic procedure on the heart tissue;

a display screen; and

a processor configured for displaying an image of the plurality of electrodes on the display

screen and annotating the image with a binary map designator that identifies and marks an electrode as being adjacent abnormal tissue.

67. (Previously Added) The medical system of claim 66, wherein the controller is further configured to monitor events during the procedure, and the designator identifies and marks an electrode based on the monitored events.

68. (Previously Added) The medical system of claim 67, wherein the designator identifies and marks an electrode wherein early depolarization of the heart tissue has occurred.

69. (Previously Added) The medical system of claim 67, wherein the designator identifies and marks an electrode where a sensed electrogram appears fractionated or broken in appearance.

70. (Previously Added) The medical system of claim 67, wherein the designator identifies and marks an electrode with a high pace mapping matching index.

71. (Previously Added) The medical system of claim 67, wherein the designator identifies and marks an electrode where arrhythmia entrainment was achieved.

72. (Previously Added) The medical system of claim 66, wherein the plurality of electrodes is carried by a single electrode structure.

73. (Currently Amended) A medical system, comprising:  
an electrode structure having a plurality of electrodes configured to be placed adjacent heart tissue;  
a controller configured for conditioning the electrode structure to perform a diagnostic or therapeutic procedure on the heart tissue;  
a display screen; and  
a processor configured for displaying an image of the electrode structure on the display screen and annotating the image with a binary map designator that identifies and marks an electrode of the electrode structure in response to entry of a coordinate of the electrode by a user.

74. (Currently Amended) A medical system, comprising:  
a plurality of electrodes configured to be placed adjacent heart tissue;  
a controller configured for conditioning the electrodes to perform a diagnostic or therapeutic procedure on the heart tissue;  
a display screen; and  
a processor configured for displaying an image of the plurality of electrodes on the display screen and annotating the image with a binary map designator that identifies and marks an electrode as having a specific function.

75. (Previously Added) The medical system of claim 74, wherein the specific function is pacing.

76. (Previously Added) The medical system of claim 74, wherein the specific function is recording.

77. (Currently Amended) A method of performing a medical procedure on a heart, comprising:

deploying a plurality of electrodes adjacent myocardial tissue;

performing a diagnostic or therapeutic procedure on the myocardial tissue;

generating an image of the electrodes; and

and annotating the image with a binary map designator that identifies and marks an electrode as being adjacent abnormal tissue.

78. (Previously Added) The method of claim 77, further comprising monitoring events during the procedure, wherein the designator identifies and marks an electrode based on the monitored events.

79. (Previously Added) The method of claim 78, wherein the designator identifies and marks an electrode wherein early depolarization of the heart tissue has occurred.

80. (Previously Added) The method of claim 78, wherein the designator identifies and marks an electrode where a sensed electrogram appears fractionated or broken in appearance.

81. (Previously Added) The method of claim 78, wherein the designator identifies and marks an electrode with a high pace mapping matching index.

82. (Previously Added) The method of claim 78, wherein the designator identifies and marks an electrode where arrhythmia entrainment was achieved.

83. (Previously Added) The method of claim 77, wherein the plurality of electrodes is carried by a single electrode structure.

84. (Currently Amended) A method of performing a medical procedure on a heart, comprising:

- deploying an electrode structure having a plurality of electrodes adjacent myocardial tissue;
- performing a diagnostic or therapeutic procedure on the myocardial tissue;
- generating an image of the electrode structure; and
- and annotating the image with a binary map designator that identifies and marks an electrode of the electrode structure in response to entry of a coordinate of the electrode by a user.

85. (Currently Amended) A method of performing a medical procedure on a heart, comprising:

- deploying a plurality of electrodes adjacent myocardial tissue;
- performing a diagnostic or therapeutic procedure on the myocardial tissue;
- generating an image of the electrodes; and
- and annotating the image with a binary map designator that identifies and marks an electrode as having a specific function.

86. (Previously Added) The method of claim 85, wherein the specific function is pacing.

87. (Previously Added) The method of claim 85, wherein the specific function is recording.